
SEQUENCE LISTING

<110> DLF-Trifolium A/S

Risoe National Laboratory

Nielsen, Klaus K

Jensen, Christian S

Gao, Caixa

Salchert, Klaus

<120> Method of Repressing Flowering in a Plant

<130> P12791PC

<140> PCT/EP03/02629

<141> 2003-03-10

<150> US 60/363,125

<151> 2002-03-11

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<170> PatentIn version 3.1

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<213> Lolium perenne

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<213> *Lolium perenne*

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Ser Asn Lys Leu Val Phe Asn Gly His Glu Leu Tyr Pro Ser Ala Val
35           40           45

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Val Ser Lys Pro Arg Val Glu Val Gln Gly Gly Asp Leu Arg Ser Leu
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Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Gly Pro Ser Asp Pro
65 70 75 80

Tyr Leu Arg Glu His Leu His Trp Ile Val Ser Asn Ile Pro Gly Thr
85 90 95

Thr Asp Ala Ser Phe Gly Gly Glu Val Met Ser Tyr Glu Ser Pro Lys
100 105 110

Pro Asn Ile Gly Ile His Arg Phe Ile Phe Val Leu Phe Lys Gln Lys
115 120 125

Arg Arg Gln Thr Val Ser Val Pro Ser Phe Arg Asp His Phe Asn Thr
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35 40 45

Ser Ser Val Ser Ser Lys Pro Arg Val Glu Ile His Gly Gly Asp Leu
50 55 60

Arg Ser Phe Phe Thr Leu Val Met Ile Asp Pro Asp Val Pro Gly Pro
65 70 75 80

Ser Asp Pro Phe Leu Lys Glu His Leu His Trp Ile Val Thr Asn Ile
 85 90 95

Pro Gly Thr Thr Asp Ala Thr Phe Gly Lys Glu Val Val Ser Tyr Glu
 100 105 110

Leu Pro Arg Pro Ser Ile Gly Ile His Arg Phe Val Phe Val Leu Phe
 115 120 125

Arg Gln Lys Gln Arg Arg Val Ile Phe Pro Asn Ile Pro Ser Arg Asp
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His Phe Asn Thr Arg Lys Phe Ala Val Glu Tyr Asp Leu Gly Leu Pro
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<213> Brassica napus

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 35 40 45

Leu Ala Val Ser Ser Lys Pro Arg Val Glu Ile His Asp Gly Asp Leu
 50 55 60

Arg Ser Phe Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Asn Pro
 65 70 75 80

Ser Asp Pro Phe Leu Lys Glu Arg Leu His Trp Leu Val Met Asn Ile

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Pro Gly Thr Thr Asp Ala Thr Phe Gly Lys Glu Val Val Ser Tyr Glu
 100 105 110

Leu Pro Lys Pro Asn Ile Gly Ile His Arg Tyr Val Phe Val Leu Phe
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Arg Gln Lys Gln Arg Arg Val Lys Phe Pro Ser Asn Ile Ile Ser Arg
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Asp Gln Phe Asn Thr Arg Glu Phe Ala Ile Glu Asn Asp Leu Gly Leu
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Val Ser Tyr Asn Lys Lys Gln Val Ser Asn Gly His Glu Leu Phe Pro
 35 40 45

Leu Ala Val Ser Ser Lys Pro Arg Val Glu Ile His Asp Gly Asp Leu
 50 55 60

Arg Ser Phe Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Asn Pro
 65 70 75 80

Ser Asp Pro Phe Leu Lys Glu Arg Leu His Trp Leu Val Met Asn Ile
 85 90 95

Pro Gly Thr Thr Asp Ala Thr Phe Gly Lys Glu Val Val Ser Tyr Glu
 100 105 110

Leu Pro Lys Pro Asn Ile Gly Ile His Arg Tyr Val Phe Val Leu Phe
 115 120 125

Arg Gln Lys Gln Arg Arg Val Lys Phe Pro Ser Asn Ile Ile Ser Arg
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Asp Gln Phe Asn Thr Arg Glu Phe Ala Ile Glu Asn Asp Leu Gly Leu
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<213> Antirrhinum sp.

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Tyr Asn Ser Asn Asn Ser Ile Lys His Val Tyr Asn Gly His Glu Leu
 35 40 45

Phe Pro Ser Ala Val Thr Ser Thr Pro Arg Val Glu Val His Gly Gly
 50 55 60

Asp Met Arg Ser Phe Phe Thr Leu Ile Met Thr Asp Pro Asp Val Pro
 65 70 75 80

Gly Pro Ser Asp Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr
 85 90 95

Asp Ile Pro Gly Thr Thr Asp Ser Ser Phe Gly Lys Glu Val Val Ser
 100 105 110

Tyr Glu Met Pro Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu
 115 120 125

Leu Phe Lys Gln Lys Lys Arg Gly Gln Ala Met Leu Ser Pro Pro Val
 130 135 140

Val Cys Arg Asp Gly Phe Asn Thr Arg Lys Phe Thr Gln Glu Asn Glu
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Ala Ala Arg Arg Arg
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<211> 175

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<213> Nicotiana tabacum

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Asn Ser Ser Lys His Val Tyr Asn Gly His Glu Leu Phe Pro Ser Ser
 35 40 45

Val Thr Ser Lys Pro Arg Val Glu Val His Gly Gly Asp Leu Arg Ser
 50 55 60

Phe Phe Thr Met Ile Met Ile Asp Pro Asp Val Pro Gly Pro Ser Asp
 65 70 75 80

Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly
 85 90 95

Thr Thr Asp Cys Ser Phe Gly Lys Glu Ile Val Gly Tyr Glu Met Pro
 100 105 110

Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu Leu Phe Lys Gln
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Lys Lys Arg Gln Thr Val Leu Thr Ala Pro Leu Ser Arg Asp Arg Phe
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 20 25 30

Asn Ser Ser Lys His Val Tyr Asn Gly His Glu Leu Phe Pro Ser Ser
 35 40 45

Val Thr Ser Lys Pro Arg Val Glu Val His Gly Gly Asp Leu Arg Ser
 50 55 60

Phe Phe Thr Leu Ile Met Ile Asp Pro Asp Val Pro Gly Pro Ser Asp
 65 70 75 80

Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly
 85 90 95

Thr Thr Asp Cys Ser Phe Gly Arg Glu Ile Val Gly Tyr Glu Met Pro
 100 105 110

Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu Leu Phe Lys Gln

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120

125

Lys Lys Arg Gln Thr Leu Leu Ser Ala Pro Leu Ser Arg Asp Arg Phe
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Asn Asn Asn Lys His Val Tyr Asn Gly His Glu Phe Phe Pro Ser Ser
 35 40 45

Val Thr Ser Lys Pro Arg Val Glu Val His Gly Gly Asp Leu Arg Ser
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Phe Phe Thr Leu Ile Met Ile Asp Pro Asp Val Pro Gly Pro Ser Asp
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Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly
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Thr Thr Asp Cys Ser Phe Gly Arg Glu Val Val Gly Tyr Glu Met Pro
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Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu Leu Phe Lys Gln
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Lys Lys Arg Gln Thr Ile Ser Ser Ala Pro Val Ser Arg Asp Gln Phe
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<213> Nicotiana tabacum

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 35 40 45

Ile Ala Ala Lys Pro Arg Val Glu Ile Gly Gly Glu Asp Met Arg Ser
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Ala Tyr Thr Leu Ile Met Thr Asp Pro Asp Val Pro Gly Pro Ser Asp
 65 70 75 80

Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly
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Ser Thr Asp Ser Ser Phe Gly Arg Glu Ile Val Ser Tyr Glu Ser Pro
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Lys Pro Val Ile Gly Ile His Arg Tyr Val Leu Leu Leu Tyr Lys Gln
 115 120 125

Ser Gly Arg Gln Thr Val Lys Pro Ala Ala Thr Arg Asp His Phe Asn
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<210> 12

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<213> Oryza sativa

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Ser Asn Lys Leu Val Phe Asn Gly His Glu Leu Tyr Pro Ser Ala Val
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Val Ser Lys Pro Arg Val Glu Val Gln Gly Gly Asp Leu Arg Ser Phe
50 55 60

Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Gly Pro Ser Asp Pro
65 70 75 80

Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly Thr
85 90 95

Thr Asp Ala Ser Phe Gly Arg Glu Val Ile Ser Tyr Glu Ser Pro Lys
100 105 110

Pro Asn Ile Gly Ile His Arg Phe Ile Phe Val Leu Phe Lys Gln Lys
115 120 125

Arg Arg Gln Thr Val Ile Val Pro Ser Phe Arg Asp His Phe Asn Thr
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Arg Arg Phe Ala Glu Glu Asn Asp Leu Gly Leu Pro Val Ala Ala Val
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<210> 13

<211> 173

<212> PRT

<213> Oryza sativa

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Ser Asn Lys Leu Val Phe Asn Gly His Glu Phe Tyr Pro Ser Ala Val
35 40 45

Val Ser Lys Pro Arg Val Glu Val Gln Gly Gly Asp Met Arg Ser Phe
50 55 60

Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Gly Pro Ser Asp Pro
65 70 75 80

Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly Thr
85 90 95

Thr Asp Ala Ser Phe Gly Arg Glu Ile Ile Ser Tyr Glu Ser Pro Lys
100 105 110

Pro Ser Ile Gly Ile His Arg Phe Val Phe Val Leu Phe Lys Gln Lys
115 120 125

Arg Arg Gln Ala Val Val Val Pro Ser Ser Arg Asp His Phe Asn Thr
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35 40 45

Gln Asn Lys Pro Arg Val Glu Ile Gly Gly Glu Asp Leu Arg Asn Phe
50 55 60

Tyr Thr Leu Val Met Val Asp Pro Asp Val Pro Ser Pro Ser Asn Pro
65 70 75 80

His Leu Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr
85 90 95

Thr Gly Thr Thr Phe Gly Asn Glu Ile Val Cys Tyr Glu Asn Pro Ser
100 105 110

Pro Thr Ala Gly Ile His Arg Val Val Phe Ile Leu Phe Arg Gln Leu
115 120 125

Gly Arg Gln Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Asn Thr
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Arg Glu Phe Ala Glu Ile Tyr Asn Leu Gly Leu Pro Val Ala Ala Val
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<210> 15

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<213> Artificial Sequence

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